# Safest, simplest and efficient system for power distribution

**F·T·N**

*Powering Business Worldwide*

# Energizing a world
## that demands more.

### Discover today's Eaton.

## Powering business worldwide

As a global power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.

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*Powering Business Worldwide*

# We deliver:

Electrical solutions that use less energy, improve power reliability and make the places we live and work safer and more comfortable. We provide integrated solutions that help make energy, in all its forms, more practical and accessible. With revenues of $19.6 billion in 2021, Eaton has approximately 100,000 employess around the world and serves customers in more than 170 countries.

## Eaton's electrical business

**Eaton is a global leader with expertise in:**

· Power distribution and circuit protection
· Backup power protection
· Solutions for harsh and hazardous environments
· Lighting and security
· Structural solutions and wiring devices
· Control and automation
· Engineering services

Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges. With 100 years of electrical experience behind us, we're energized by the challenge of powering up a world that demands twice as much energy as today. We're anticipating needs, engineering products and creating solutions to energize our markets today and in the future.

We are dedicated to ensuring that reliable, efficient and safe power is available when it's needed most.

**Eaton.com**

# We make what matters work.*

*At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

**To learn more go to: Eaton.com/whatmatters**

**We make what matters work.**

**E·AT·N**

*Powering Business Worldwide*

# Product overview

**xBoard TPN Distribution Board (Type -1)**



**xBoard TPN Distribution Board (Type -2)**



## General characteristics

Our inspirations are our customer's expectations and our mission is to meet them and provide satisfaction through quality products, services and delivery.

Eaton's xBoard Egypt range of distribution solutions is the basis for development and growth in meeting the demands for a successful future in all segments.

The Distribution Board is designed as per IEC 61439-3 standard

- It is easy to select, install and use.
- It is fitted with a removable and adjustable chassis.
- The front door is removable and reversible.
- For convenience and easy access the gland plates on the top and bottom are removable.

# Product overview

- Available in flush and surface mounting design.

- Colour available as standard RAL 7035 and other colours are available upon request.

- Incomer options: MCBs and MCCBs.

- Complete with earth and neutral terminals suitable for 25mm$^2$ wire.

**Accessories**

Blanking plate

## Technical data

**Standard:** IEC 61439-3.

**Voltage range:** 3-Phase, rated voltage 240/415V, 50/60Hz.

**Short-circuit withstand strength (Icw) :** 17.5kA for 0.25sec, Ipk: 35kA
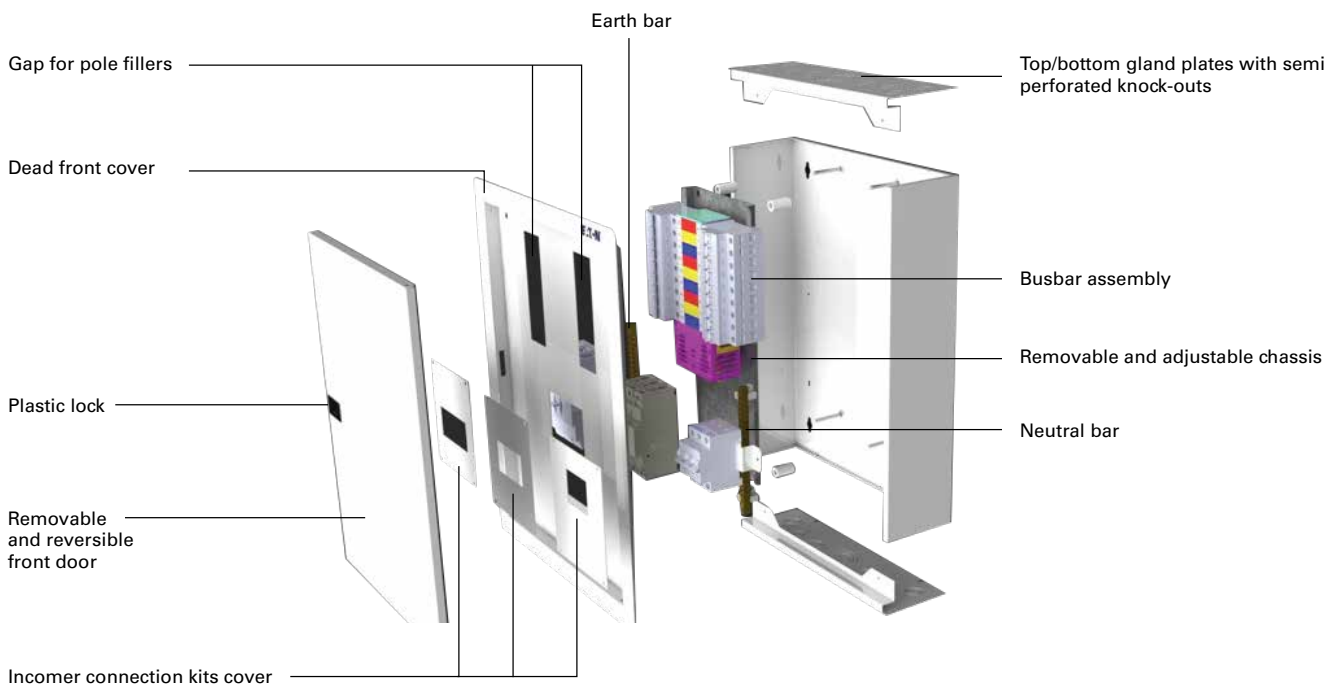
**Degree of protection:** Indoor use IP4x.

**Mechanical impact:** IK08.

**Enclosure material:** Cold rolled sheet steel, box, cover 1 mm and 1.25 mm pan assembly mounting plate.

## xBoard TPN Distribution Board (Type -1)

**Rated busbar max. capacity:** 125A.
**No. of TP (SP) ways:** 4(12), 6(18), 8(24), 10(30), 12(36), 14(42) 16(48), 18(54), 20(60).
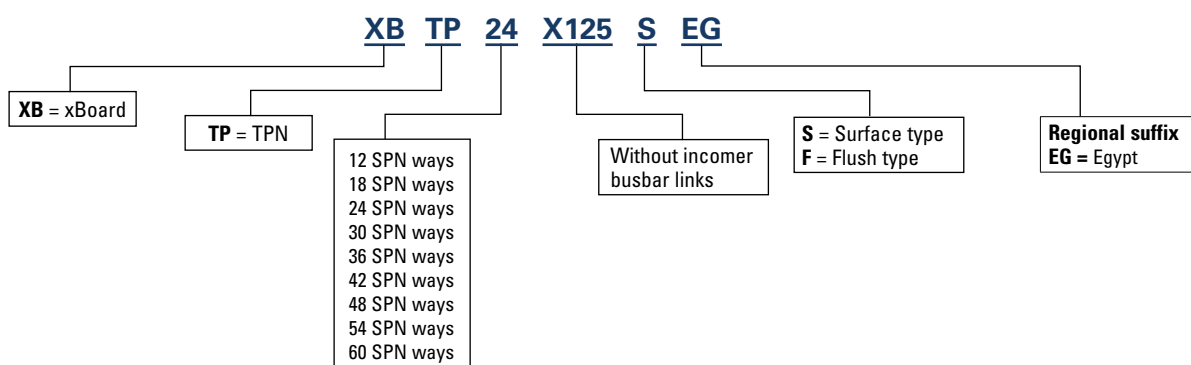


*Type -1: Distribution boards with different incomer options

# Ordering and dimension details

## xBoard TPN Distribution Board (Type -1)

**Enclosures part number reference**

```
XB   TP   24   X125   S   EG
```

| **XB** = xBoard |
| **TP** = TPN |
| 12 SPN ways<br>18 SPN ways<br>24 SPN ways<br>30 SPN ways<br>36 SPN ways<br>42 SPN ways<br>48 SPN ways<br>54 SPN ways<br>60 SPN ways |
| Without incomer busbar links |
| **S** = Surface type<br>**F** = Flush type |
| **Regional suffix**<br>**EG =** Egypt |

| Type | Busbar rating | Type of mounting | Outgoing ways SP | TP | Eaton List number | Dimensions (mm) H | W | D |
|------|---------------|------------------|------------------|----|-------------------|-------------------|---|---|
| xBoard TPN Distribution board | 125A | Flush | 12 | 4 | XBTP12X125FEG | 525 | 425 | 123 |
| | | | 18 | 6 | XBTP18X125FEG | 578 | 425 | 123 |
| | | | 24 | 8 | XBTP24X125FEG | 612 | 425 | 123 |
| | | | 30 | 10 | XBTP30X125FEG | 666 | 425 | 123 |
| | | | 36 | 12 | XBTP36X125FEG | 720 | 425 | 123 |
| | | | 42 | 14 | XBTP42X125FEG | 774 | 425 | 123 |
| | | | 48 | 16 | XBTP48X125FEG | 828 | 425 | 123 |
| | | | 54 | 18 | XBTP54X125FEG | 882 | 425 | 123 |
| | | | 60 | 20 | XBTP60X125FEG | 936 | 425 | 123 |
| | | Surface | 12 | 4 | XBTP12X125SEG | 505 | 405 | 123 |
| | | | 18 | 6 | XBTP18X125SEG | 558 | 405 | 123 |
| | | | 24 | 8 | XBTP24X125SEG | 592 | 405 | 123 |
| | | | 30 | 10 | XBTP30X125SEG | 646 | 405 | 123 |
| | | | 36 | 12 | XBTP36X125SEG | 700 | 405 | 123 |
| | | | 42 | 14 | XBTP42X125SEG | 754 | 405 | 123 |
| | | | 48 | 16 | XBTP48X125SEG | 808 | 405 | 123 |
| | | | 54 | 18 | XBTP54X125SEG | 862 | 405 | 123 |
| | | | 60 | 20 | XBTP60X125SEG | 916 | 405 | 123 |

**Incomer Busbar links part number reference**

| Description | Eaton List number |
|-------------|-------------------|
| Incomer busbar link MCB | XBBBM63EG |
| Incomer busbar link BZM1 | XBBBB125EG |
| Incomer busbar link NZM1/PDE1 | XBBBN125EG |

- Minimum ordering requirement: distribution board + incoming device + incomer busbar links + outgoing devices + blanking plates.

# xBoard TPN Distribution Board (Type -2)

**Rated busbar max. capacity:** 125A.

**No. of TP (SP) ways:** 4(12), 6(18), 8(24), 12(36), 16(48).

Gap for pole fillers

Dead front cover

Plastic lock

Removable and reversible front door

Top/bottom gland plates with semi perforated knock-outs

Busbar assembly

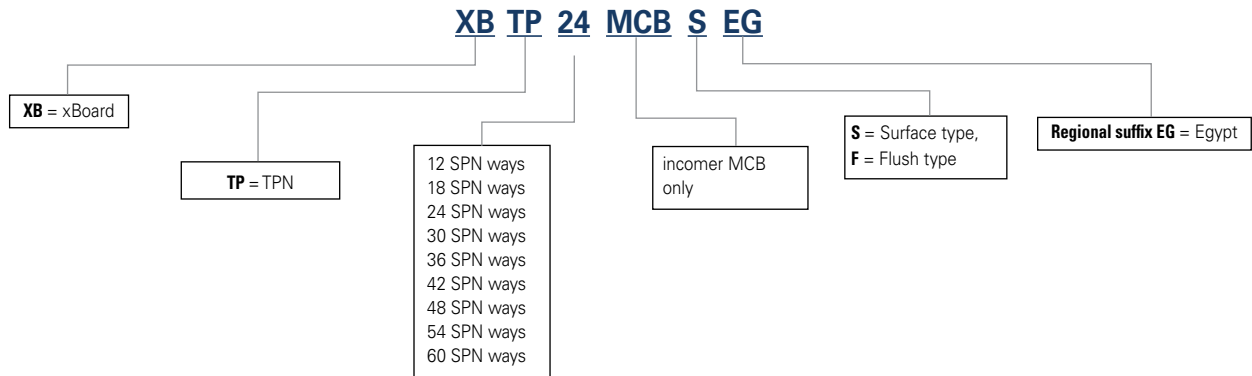Removable and adjustable chassis

Neutral bar

Earth bar
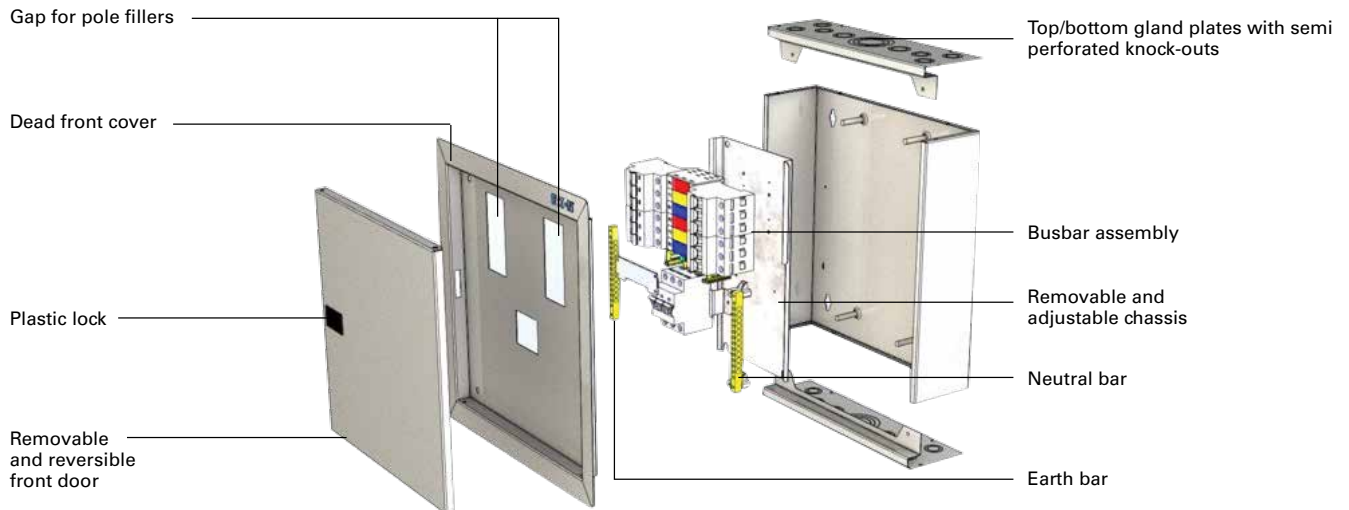
*Type -2: Distribution boards with MCB incomer option only (Incomer busbar links not required)

# Ordering and dimension details

## xBoard TPN Distribution Board (Type -2)

**Enclosures part number reference**



XB = xBoard

TP = TPN

12 SPN ways
18 SPN ways
24 SPN ways
30 SPN ways
36 SPN ways
42 SPN ways
48 SPN ways
54 SPN ways
60 SPN ways

incomer MCB only

**S** = Surface type, **F** = Flush type

**Regional suffix EG** = Egypt

| Type | Busbar Rating | Type of Mounting | Outgoing Ways | | Eaton List Number | H | W | D |
|---|---|---|---|---|---|---|---|---|
| | | | SP | TP | | | | |
| xBoard TPN Distribution board | 125A | Flush | 12 | 4 | XBTP12MCBFEG | 409 | 385 | 102 |
| | | | 18 | 6 | XBTP18MCBFEG | 463 | 385 | 102 |
| | | | 24 | 8 | XBTP24MCBFEG | 517 | 385 | 102 |
| | | | 30 | 10 | XBTP30MCBFEG | 571 | 385 | 102 |
| | | | 36 | 12 | XBTP36MCBFEG | 625 | 385 | 102 |
| | | | 42 | 14 | XBTP42MCBFEG | 679 | 385 | 102 |
| | | | 48 | 16 | XBTP48MCBFEG | 733 | 385 | 102 |
| | | | 54 | 18 | XBTP54MCBFEG | 787 | 385 | 102 |
| | | | 60 | 20 | XBTP60MCBFEG | 841 | 385 | 102 |
| | | Surface | 12 | 4 | XBTP12MCBSEG | 384 | 360 | 102 |
| | | | 18 | 6 | XBTP18MCBSEG | 438 | 360 | 102 |
| | | | 24 | 8 | XBTP24MCBSEG | 492 | 360 | 102 |
| | | | 30 | 10 | XBTP30MCBSEG | 546 | 360 | 102 |
| | | | 36 | 12 | XBTP36MCBSEG | 600 | 360 | 102 |
| | | | 42 | 14 | XBTP42MCBSEG | 654 | 360 | 102 |
| | | | 48 | 16 | XBTP48MCBSEG | 708 | 360 | 102 |
| | | | 54 | 18 | XBTP54MCBSEG | 762 | 360 | 102 |
| | | | 60 | 20 | XBTP60MCBSEG | 816 | 360 | 102 |

- Minimum ordering requirement: distribution board + incoming device + outgoing devices + blanking plates.

# Accessories

## Blank plate

**Technical specifications**

- Unique blanking modules can be used to cover unused outgoing ways. The blanking module is the profile of an MCB,so that it shrouds the busbar stab as well for increased safety.
- Hence, the blanking plates are used to cover unused MCB ways in the distribution boards front cover.
- Available in grey color(similar to RAL 7035).

| Part number | Description | Eaton List number |
|---|---|---|
| XBBLKPLT3 | 3 pole blank plate | 187599 |

# Selection of incomers and outgoers

**xBoard TPN Distribution Board (Type -1)**



**xBoard TPN Distribution Board (Type -2)**



## Outgoing devices



### Eaton's mMC, HL, & HN range of MCBs

- Up to 63A
- 4.5kA/6kA/10kA
- 1P, 2P and 3P

## Incoming devices



### Eaton's range of din rail incomers

- mMC Range of MCBs - 3P



### Eaton's eRBM range of RCBOs

- Up to 45A
- 1P + N
- 10/30/100/300mA



### Eaton's range of MCCBs

- NZM1 MCCBs - 3P
- BZM1-BT* MCCBs - 3P

  *BZM1-BT: Box terminal type

# Notes:

MORE POSSIBILITIES.
POWERFUL SOLUTIONS.

Eaton has been serving the power management needs of our customers for more than a century. Over the years, we have expanded our expertise and portfolio of products and services by uniting some of the world's most respected names with Eaton's strong heritage of innovation.

Our goal is simple; to provide unique solutions across a wide range of markets that keep businesses on the leading edge of change. That's the power of One Eaton.

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